



Patent
Atty Docket No. 054707-1225

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Gregory S. HAMILTON et al.
Title: N-LINKED SULFONAMIDES OF N-HETEROCYCLIC
CARBOXYLIC ACIDS OR CARBOXYLIC ACID
ISOSTERES
Appl. No.: 10/601,607
Filing Date: 06/24/2003
Examiner: Unassigned
Art Unit: 1625

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR §1.56

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

Sir:

Pursuant to 37 C.F.R. §§ 1.56 and 1.97(b), Applicants bring to the attention of the PTO the documents listed on the attached PTO 1449B. This Information Disclosure Statement is being filed before the mailing date of a first Office Action on the merits for the above-referenced application.

Copies of the listed documents were previously submitted to the PTO or cited by the PTO in application no. 09/791,660, filing date 2/26/1, upon which Applicants rely for the benefits provided in 35 U.S.C. § 120 and/or application no. 09/204,236, filing date 12/3/98, upon which Applicants rely for the benefits provided in 35 U.S.C. § 121. Applicants respectfully request that the Examiner consider the listed documents and indicate that they were considered by making appropriate notations on the attached forms.

Translations are believed to have been submitted in application no. 09/791,660 and/or application no. 09/204,236 where indicated.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the

documents as prior art against any claim in the application and Applicants determine that any cited document is not "prior art" under United States law, then Applicants reserves the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application or that such document is considered material to patentability as defined in 37 CFR § 1.56(b). Applicants do not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a prima facie art reference against the claims of the present application.

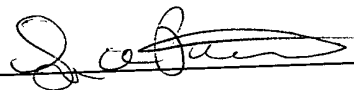
The Commissioner is hereby authorized to charge any additional fees which may be required regarding this application under 37 CFR §§ 1.16-1.17, or credit any overpayment, to Deposit Account No. 19-0741. Should no proper payment be enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 19-0741.

Respectfully submitted,

Date

9/30/13

By



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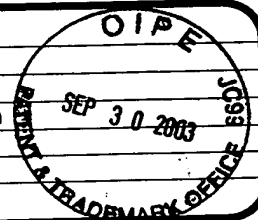
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Sean A. Passino
Attorney for Applicants
Registration No. 45,943

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Substitute for form 1449B/PTO		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	10/601,607
Date Submitted: October 30, 2003		Filing Date	06/24/2003
(use as many sheets as necessary)		First Named Inventor	Gregory S. Hamilton
Sheet 1 of 45		Group Art Unit	Previously 1625
		Examiner Name	Unassigned
		Attorney Docket Number	054707-1225



U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
	A1	3,277,087		WEI, ET AL.	10/04/1966	
	A2	3,424,749		PFENNINGER	01/28/1969	
	A3	3,501,512		WEI, ET AL.	03/17/1970	
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	A5	4,070,361		PETRILLO, JR.	01/24/1978	
	A6	4,217,130		TSURUTA	08/12/1980	
	A7	4,374,829		HARRIS, ET AL.	02/22/1983	
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	A40	5,543,423		ZELLE, ET AL.	08/06/1996	
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Examiner Signature	Date Considered
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⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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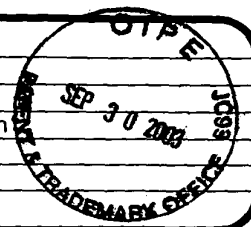
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Sheet 2 of 45

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A43	5,599,927		OR, ET AL.	02/04/1997
A44	5,604,294		LULY, ET AL.	02/18/1997
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A46	5,620,971		ARMISTEAD, ET AL.	04/15/1997
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A58	5,744,485		ZELLE, ET AL.	04/28/1998
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Sheet 3 of 45

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A79	WO	99/45006			09/1999		X
	A80	EPO	EP 0 610 744 A			08/17/1994		X
	A81		WO 92 21313 A			12/10/1992		X
	A82		WO 96 40140 A			12/19/1996		X
	A83		WO 98 08827 A			03/05/1998		X
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	A85		WO 00/58280			03/21/2000		X
	A86		WO 00/58304			03/21/2000		X
	A87		WO 00/58285			03/18/2000		X
	A88		WO 99/45006			09/10/1998		
	A89		WO 99/10340			03/04/1999		X
	A90		WO 96/06846			03/07/96		X
	A91		WO 94/12474			06/09/94		
	A92		EP 488 258			06/03/1992		X
	A93		DE 197 42 263			09/25/1997		
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	A95		JP55-153763					
	A96		WO 98/55091			10/12/1998		X
	A97		WO 98/37885			03/09/1998		X
	A98		WO 98/29117			09/07/1998		X
	A99		WO 98/24805			11/06/1998		X
	A100		WO 98/22432			05/22/1998		
	A101		WO 98/20893			05/22/1998		X
	A102		WO 98/20892			05/22/1998		X
	A103		WO 98/20891			05/22/1998		X
	A104		WO 98/13343			02/04/1998		X
	A105		WO 96/41609			12/27/1996		X
	A106		WO 96/40633			12/19/1996		X
	A107		WO 96/33184			10/24/1996		X
	A108		WO 95/35367			12/28/1995		X
	A109		WO 95/35308			12/28/1995		X
	A110		WO 95/34303			12/21/1995		X
	A111		WO 95/24385			09/14/1995		X
	A112		WO 95/12572			05/11/1995		X
	A113		WO 95/12398			05/11/1995		X
	A114		WO 94/15900			07/21/1994		X
	A115		WO 94/14428			07/07/94		X
	A116		WO 94/13629			06/23/1994		X
	A117		WO 94/05639			03/17/1994		X
	A118		WO 94/03476			02/17/1994		X
	A119		WO 93/25546			12/23/1993		X
	A120		WO 93/18736			09/30/1993		X
	A121		WO 93/14762			05/08/1993		X
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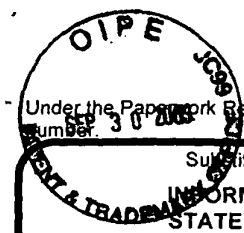
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Sheet

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		Office ³	Number ⁴	Kind Code ⁵ (if known)				
	A123		WO 92/19745			11/12/1992		X
	A124		WO 92/19593			11/12/1993		X
	A125		WO 92/04370			03/19/1992		X
	A126		WO 92/00278			01/09/1992		X
	A127		WO 89/06234			07/13/1989		X
	A128		WO 88/09789			12/15/1988		X
	A129		WO 88/00040			01/14/1988		X
	A130		WO 85/04577			10/24/1985		X
	A131	EP	EP 823419			02/11/1998		X
	A132	EP	EP 519819			12/23/1992		
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	A134	EP	EP 471135			02/19/1992		X
	A135	EP	EP 443983			08/28/1991		X
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	A138	DE	DE 4425950			01/25/1996		
	A139	DE	DE 2505114			08/19/1976		
	A140		WO 98/08827			05/05/1998		X
	A141		WO 98/08814			03/05/1998		X
	A142		WO 97/49695			12/31/1997		X
	A143		WO 97/48681			12/24/1997		X
	A144		WO 97/38008			10/16/1997		X
	A145		WO 97/36869			09/10/1997		X
	A146		WO 97/23458			03/07/1997		X
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	A148		WO 96/33175			10/24/1996		X
	A149		WO 96/20949			07/11/1996		X
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	A151		WO 96/11195			04/18/1996		X
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	A153		WO 92/21313			12/10/1992		X
	A154		WO 92/11850			07/23/1992		X
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	A156	EP	EP 769498			04/23/1997		X
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	A160	Japan	JP 64-19063			01/23/1989		
	A161	Japan	JP 09-169758			06/30/1997		
	A162	Japan	JP 05-194235			08/03/1993		
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁶
	A164	VAN DEN BROEK, "Assymmetric diels-alder . . ." CA 100:191690 91984)	
	A165	NKUNYA ET AL., "Assymmetric synthesis of alpha . . ." CA 106:67013 (1985)	
	A166	THORSETT ET AL., "Preparation of N-sulfonylproline dipeptide . . ." CA 130:168662 (1999)	
	A167	DURETTE ET AL., "Preparation of heterocycli dipeptide . . ." CA 130:52724 (1998)	
	A168	KING, "Bioisoteres, conformation restriction . . ." Med. Chem. Principle and Practice, (1994) p. 206-209	
	A169	PATANI ET AL., "Bioisoterism: a rational approach in drug design" Chem. Rev. v.96, 3147-76 (1996)	
	A170	PONTICELLO ET AL., "Synthesis of 2- and 6-chloro . . ." CA 93:186222 (1980)	
	A171	SAUNDERS ET AL., "Novel quinuclidine-based . . ." CA 112:158157 (1990)	
	A172	MAGAL, "Method for treating hearing loss . . ." CA 130:262139 (1999)	
	A173	Supplementary Partial European Search Report, March 19, 2002	
	A174	MOSS, et al.: "2-Amino Ketene S,S-Acetals as α -Amino Acid Homoenolate Equivalents. Synthesis of 3-Substituted Prolines and Molecular Structure of 2-(N-Pivaloylpyrrolidin-2-ylidene)-1,3-dithiane"; J. CHEM. SOC. PERKIN TRANS. 1(1992), (20), pp. 2615-2624.	
	A175	King, Frank D., "Bioisosteres, Conformational Restriction, and Pro-Drugs - Case History: An Example of a Conformational Restriction Approach," <u>Med. Chem.: Prin. & Prac.</u> , 1994, 206-09.	

Examiner
Signature

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Application Number	10/601,607
Filing Date	06/24/2003
First Named Inventor	Gregory S. Hamilton
Group Art Unit	Previously 1625
Examiner Name	Unassigned
Attorney Docket Number	054707-1225

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	A184	Hamilton, Gary S. and Steiner, Joseph P., "Neuroimmunophilin Ligands as Novel Therapeutics for the Treatment of Degenerative Disorders of the Nervous System," 1-71.	

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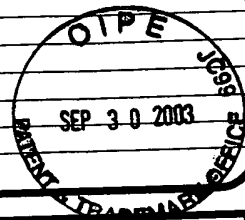
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	A186	Iwabuchi, Tokuro et al., "Effects of immunosuppressive peptidyl-prolyl cis-trans isomerase (PPIase) inhibitors, cyclosporin A, FK506, ascomycin and rapamycin, on hair growth initiation in mouse: immunosuppression is not required for new hair growth," <u>J. Dermatol. Sci.</u> , 1995, 9, 64-69.	
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	A189	Lyons, W.E. et al., "Immunosuppressant FK506 promotes neurite outgrowth in cultures of PC 12 cells and sensory ganglia," <u>Proc. Nat. Acad. Sci.</u> , 1994, 91, 3191-95.	
	A190	Lyons, W.E. et al., "Neuronal Regeneration Enhances the Expression of the Immunophilin FKBP-12," <u>J. Neuroscience</u> , 1995, 15(4), 2985-94.	
	A191	Ryba et al., "Cyclosporine A Prevents Neurological Deterioration of Patients with SAH - A Preliminary Report," <u>Acta Neurochirurgica</u> , 1991, 112, 25-27.	
	A192	Shiga et al., "Cyclosporin A Protects Against Ischemia-Reperfusion Injury in the Brain," <u>Brain Research</u> , 1992, 595, 145-48.	
	A193	Snyder, S. and Sabatini, D., "Immunophilins and the Nervous System," <u>Nature Medicine</u> , 1995, 1, 32-37.	

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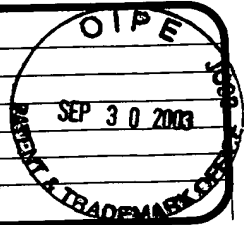
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	A199	Yamamoto, Satoshi et al., "Stimulation of Hair Growth by Topical Application of FK506, a Potent Immunosuppressive Agent," <u>J. Invest. Dermat.</u> , 1994, 102(2), 160-64.	
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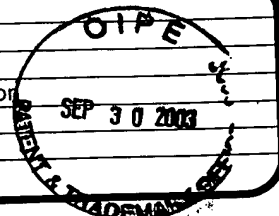
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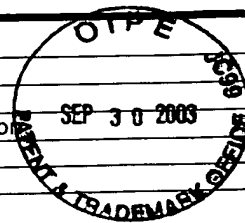
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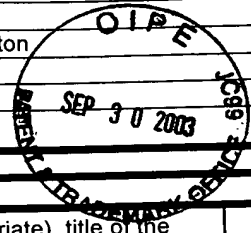
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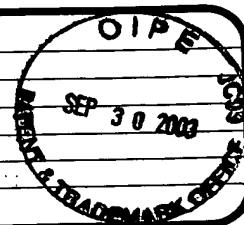
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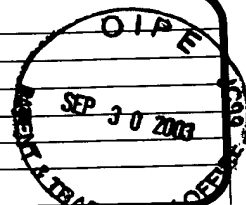
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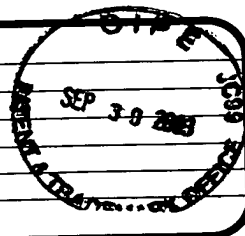
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	A248	Collins, Chemical Abstracts, Vol. 113:96679, 1990.	
	A249	Zhou, Chemical Abstracts, Vol. 113:152181, 1990.	
	A250	Simmaco, Chemical Abstracts, Vol. 113:55213, 1990.	
	A251	Mostovnikov, Chemical Abstracts, Vol. 114:55033, 1991.	
	A252	Ejima, Chemical Abstracts, Vol. 113:78788, 1990.	
	A253	Fujiwawa, Chemical Abstracts, Vol. 112:35875, 1990.	
	A254	Tomari, Chemical Abstracts, Vol. 112:179020, 1990.	
	A255	Iwakuma, Chemical Abstracts, Vol. 89:66056, 1989.	
	A256	Lubell, Chemical Abstracts, Vol. 111:115731, 1989.	

Examiner Signature	Date Considered
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**INFORMATION DISCLOSURE
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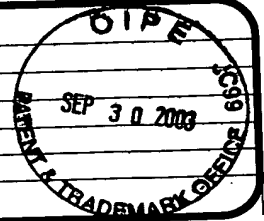
Date Submitted: October 30, 2003

(use as many sheets as necessary)

Sheet 15 of 45

Complete if Known

Application Number	10/601,607
Filing Date	06/24/2003
First Named Inventor	Gregory S. Hamilton
Group Art Unit	Previously 1625
Examiner Name	Unassigned
Attorney Docket Number	054707-1225

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	A257	Langlois, Chemical Abstracts, Vol. 112:178424, 1990.	
	A258	Nishi, Chemical Abstracts, Vol. 112:131596, 1990.	
	A259	Otto, Chemical Abstracts, Vol. 115:136711, 1991.	
	A260	Belenkii, Chemical Abstracts, Vol. 111:146061, 1989.	
	A261	Ryan, Chemical Abstracts, Vol. 110:147868, 1989.	
	A262	Hayakawa, Chemical Abstracts, Vol. 110:8191, 1989.	
	A263	Takemura, Chemical Abstracts, Vol. 11:75160, 1989.	
	A264	Hayakawa, Chemical Abstracts, Vol. 109:211064, 1988.	
	A265	Tagawa, Chemical Abstracts, Vol. 88:67487, 1988.	

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Filing Date		06/24/2003			
First Named Inventor		Gregory S. Hamilton			
Group Art Unit		Previously 1625			
Examiner Name		Unassigned			
Attorney Docket Number		054707-1225			
Sheet 16 of 45					

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	A266	Bellattar, Chemical Abstracts, Vol. 88:21212, 1988.	
	A267	Bhushan, Chemical Abstracts, Vol. 110:131593, 1989.	
	A268	Shono, Chemical Abstracts, Vol. 109:118111, 1988.	
	A269	McClung, Chemical Abstracts, Vol. 109:69689, 1988.	
	A270	Tagawa, Chemical Abstracts, Vol. 107:176302, 1987.	
	A271	Atarashi, Chemical Abstracts, Vol. 108:131711, 1988.	
	A272	Reitsma, Chemical Abstracts, Vol. 106:112841, 1987.	
	A273	Slegel, Chemical Abstracts, Vol. 108:197550, 1988.	
	A274	Kasai, Chemical Abstracts, Vol. 107:129386, 1987.	

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	A275	Imai, Chemical Abstracts, Vol. 107:168033, 1987.	
	A276	Takeuchi, Chemical Abstracts, Vol. 108:205042, 1988.	
	A277	Hayakawa, Chemical Abstracts, Vol. 106:119895, 1987.	
	A278	Belattar, Chemical Abstracts, Vol. 106:219573, 1987.	
	A279	Takeda, Chemical Abstracts, Vol. 105:153560, 1986.	
	A280	Iwakuma, Chemical Abstracts, Vol. 86:186669, 1986.	
	A281	Wada, Chemical Abstracts, Vol. 86:3609, 1986.	
	A282	Moyer, Chemical Abstracts, Vol. 106:18305, 1987.	
	A283	Zaher, Chemical Abstracts, Vol. 107:7583, 1987.	

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		Filing Date	06/24/2003
		First Named Inventor	Gregory S. Hamilton
		Group Art Unit	Previously 1625
		Examiner Name	Unassigned
Attorney Docket Number	054707-1225		

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	A284	Levina, Chemical Abstracts, Vol. 106:134510, 1987.	
	A285	Voigt, Chemical Abstracts, Vol. 107:97096, 1987.	
	A286	Voigt, Chemical Abstracts, Vol. 106:176825, 1987.	
	A287	Bianchi-Bosisio, Chemical Abstracts, Vol. 104:164657, 1986.	
	A288	Shimizu, Chemical Abstracts, Vol. 105:71819, 1986.	
	A289	Takeda, Chemical Abstracts, Vol. 104:109698, 1986.	
	A290	Iwakuma, Chemical Abstracts, Vol. 104:88453, 1986.	
	A291	Cupps, Chemical Abstracts, Vol. 103:178594, 1985.	
	A292	Maeda, Chemical Abstracts, Vol. 103:123873, 1985.	

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Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT Date Submitted: October 30, 2003 (use as many sheets as necessary) 19 of 45		Complete if Known Application Number: 10/601,607 Filing Date: 06/24/2003 First Named Inventor: Gregory S. Hamilton Group Art Unit: Previously 1625 Examiner Name: Unassigned Attorney Docket Number: 054707-1225	
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	A293	Muramoto, Chemical Abstracts, Vol. 103:88190, 1985.	
	A294	Liao, Chemical Abstracts, Vol. 103:101248, 1985.	
	A295	Barluenga, Chemical Abstracts, Vol. 104:50514, 1986.	
	A296	Wada, Chemical Abstracts, Vol. 101:151603, 1984.	
	A297	Maurer, Chemical Abstracts, Vol. 100:86080, 1984.	
	A298	Clark, Chemical Abstracts, Vol. 100:156954, 1984.	
	A299	Miyaguchi, Chemical Abstracts, Vol. 101:226284, 1984.	
	A300	Fujisawa, Chemical Abstracts, Vol. 100:120622, 1984.	
	A301	Yoshihara, Chemical Abstracts, Vol. 99:23012, 1983.	

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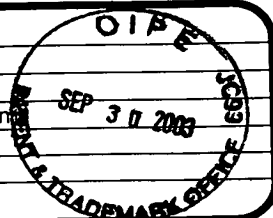
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Date Submitted: October 30, 2003		Filing Date	06/24/2003
(use as many sheets as necessary)		First Named Inventor	Gregory S. Hamilton
		Group Art Unit	Previously 1625
		Examiner Name	Unassigned
		Attorney Docket Number	054707-1225
Sheet	20	of	45



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	A302	Sakurai, Chemical Abstracts, Vol. 98:10774, 1983.	
	A303	Condon, Chemical Abstracts, Vol. 96:97142, 1982.	
	A304	Koroleva, Chemical Abstracts, Vol. 97:145238, 1982.	
	A305	Ryan, Chemical Abstracts, Vol. 96:143321, 1982.	
	A306	Voelter, Chemical Abstracts, Vol. 97:24249, 1982.	
	A307	Evans, Chemical Abstracts, Vol. 95:24122, 1981.	
	A308	El-Naggar, Chemical Abstracts, Vol. 96:163157, 1982.	
	A309	Kyowa, Chemical Abstracts, Vol. 94:208700, 1981.	
	A310	Kyowa, Chemical Abstracts, Vol. 96:56735, 1981.	

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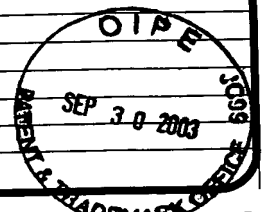
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				First Named Inventor	Gregory S. Hamilton
				Group Art Unit	Previously 1625
				Examiner Name	Unassigned
				Attorney Docket Number	054707-1225
Sheet	21	of	45		



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	A311	Uchiyama, Chemical Abstracts, Vol. 93:145695, 1980.	
	A312	Tsuruta, Chemical Abstracts, Vol. 92:141802, 1980.	
	A313	Petrillo, Chemical Abstracts, Vol. 90:138199, 1979.	
	A314	Busson, Chemical Abstracts, Vol. 89:215152, 1978.	
	A315	El-Nagger, Chemical Abstracts, Vol. 90:122044, 1979.	
	A316	El-Naggar, Chemical Abstracts, Vol. 89:110311, 1978.	
	A317	Bongiovanni, Chemical Abstracts, Vol. 90:35753, 1979.	
	A318	Karger, Chemical Abstracts, Vol. 90:147896, 1979.	
	A319	Metrione, Chemical Abstracts, Vol. 89:180326, 1978.	

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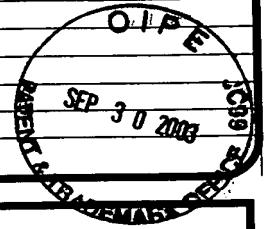
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		Filing Date	06/24/2003
Date Submitted: October 30, 2003 (use as many sheets as necessary)		First Named Inventor	Gregory S. Hamilton
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Sheet 22 of 45		Examiner Name	Unassigned
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	A320	Klimek, Chemical Abstracts, Vol. 93:72234, 1980.	
	A321	El-Naggar, Chemical Abstracts, Vol. 88:121704, 1978.	
	A322	Kusch, Chemical Abstracts, Vol. 89:2490, 1978.	
	A323	Mairanovskii, Chemical Abstracts, Vol. 86:140428, 1977.	
	A324	Hayes, Chemical Abstracts, Vol. 85:137108, 1976.	
	A325	Sudlow, Chemical Abstracts, Vol. 86:37492, 1977.	
	A326	Klimek, Chemical Abstracts, Vol. 89:103031, 1978.	
	A327	Klimek, Chemical Abstracts, Vol. 89:102994, 1978.	
	A328	Henry, Chemical Abstracts, Vol. 84:31125, 1976.	

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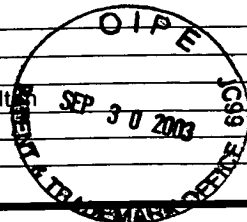
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	A330	Fujii, Chemical Abstracts, Vol. 83:43713, 1975.	
	A331	Sudlow, Chemical Abstracts, Vol. 84:69223, 1976.	
	A332	Wyszynski, Chemical Abstracts, Vol. 84:173364, 1976.	
	A333	El-Naggar, Chemical Abstracts, Vol. 83:43714, 1975.	
	A334	Teichgraeber, Chemical Abstracts, Vol. 81:11494, 1974.	
	A335	Lapuk, Chemical Abstracts, Vol. 81:4232, 1974.	
	A336	Vigny, Chemical Abstracts, Vol. 81:74341, 1974.	
	A337	Rudinger, Chemical Abstracts, Vol. 80:48358, 1974.	

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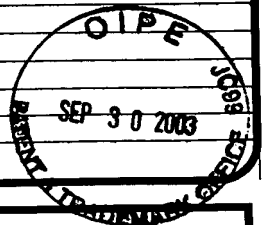
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				Application Number	10/601,607
				Filing Date	06/24/2003
				First Named Inventor	Gregory S. Hamilton
				Group Art Unit	Previously 1625
				Examiner Name	Unassigned
				Attorney Docket Number	054707-1225
Sheet	24	of	45		



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	A338	Klimek, Chemical Abstracts, Vol. 81:91909, 1974.		
	A339	Chimiak, Chemical Abstracts, Vol. 79:115871, 1973.		
	A340	Munier, Chemical Abstracts, Vol. 78:58763, 1973.		
	A341	Seiler, Chemical Abstracts, Vol. 76:22671, 1972.		
	A342	Wei, Chemical Abstracts, Vol. 73:3947, 1970.		
	A343	Muehle, Chemical Abstracts, Vol. 69:52175, 1968.		
	A344	Pfenninger, Chemical Abstracts, Vol. 68:95874, 1968.		
	A345	Schoellmann, Chemical Abstracts, Vol. 68:69316, 1968.		
	A346	Chen, Chemical Abstracts, Vol. 67:40166, 1967.		

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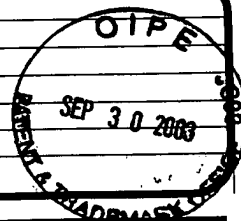
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Sheet 25 of 45		Group Art Unit	Previously 1625
		Examiner Name	Unassigned
		Attorney Docket Number	054707-1225



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	A347	Morse, Chemical Abstracts, Vol. 64:13073d, 1966.	
	A348	Geigy, Chemical Abstracts, Vol. 64:11232h, 1966.	
	A349	Vlad, Chemical Abstracts, Vol. 64:8910b, 1966.	
	A350	Geigy, Chemical Abstracts, Vol. 64:8220d, 1966.	
	A351	Geigy, Chemical Abstracts, Vol. 64:6672h, 1966.	
	A352	Geigy, Chemical Abstracts, Vol. 64:6672d, 1966.	
	A353	Seiler, Chemical Abstracts, Vol. 62:7e, 1965.	
	A354	Dwyer, Chemical Abstracts, Vol. 59:7640c, 1964.	
	A355	Ponomareva, Chemical Abstracts, Vol. 59:6511b, 1964.	

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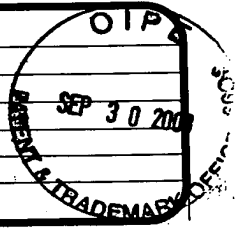
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Application Number	10/601,607
Filing Date	06/24/2003
First Named Inventor	Gregory S. Hamilton
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	A356	Kuhn, Chemical Abstracts, Vol. 51:8006i, 1957.	
	A357	Beilstein Registration Number 89347.	
	A358	Beilstein Registration Number 89346.	
	A359	Beilstein Registration Number 89345.	
	A360	Beilstein Registration Number 36650.	
	A361	Beilstein Registration Number 30852.	
	A362	Beilstein Registration Number 30355.	
	A363	Beilstein Registration Number 27462.	
	A364	Brenner, Chemical Abstracts, Vol. 126:225550, 1997.	

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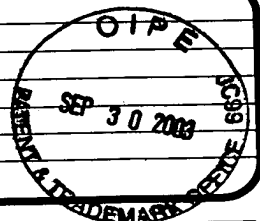
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	A365	MacPherson, Chemical Abstracts, Vol. 97:88995, 1997.	
	A366	MacPherson, Chemical Abstracts, Vol. 125:247383, 1996.	
	A367	MacPherson, Chemical Abstracts, Vol. 125:34156, 1996.	
	A368	Hanko, Chemical Abstracts, Vol. 95:110464, 1995.	
	A369	MacPherson, Chemical Abstracts, Vol. 95:88473, 1995.	
	A370	MacPherson, Chemical Abstracts, Vol. 122:314456, 1994.	
	A371	Hanko, Chemical Abstracts, Vol. 120:217671, 1993.	
	A372	Trost, Chemical Abstracts, Vol. 119:202752, 1993.	
	A373	Aahman, Chemical Abstracts, Vol. 118:80750, 1992.	

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	A374	Pinschmidt, Chemical Abstracts, Vol. 89:74314, 1987.	
	A375	Pinschmidt, Chemical Abstracts, Vol. 88:77582, 1987.	
	A376	Pinschmidt, Chemical Abstracts, Vol. 107:116414, 1986.	
	A377	Pinschmidt, Chemical Abstracts, Vol. 107:40526, 1986.	
	A378	Pinschmidt, Chemical Abstracts, Vol. 87:62109, 1987.	
	A379	Pinschmidt, Chemical Abstracts, Vol. 87:32322, 1987.	
	A380	Air Products and Chemicals, Chemical Abstracts, Vol. 106:177060, 1986.	
	A381	Shono, Chemical Abstracts, Vol. 99:87977, 1983.	
	A382	Kyowa Hakko Kogyo Co., Ltd., Chemical Abstracts, Vol. 94:208700, 1980.	

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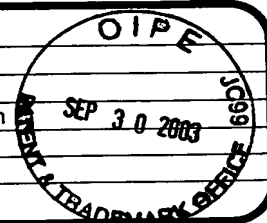
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	A383	Kyowa Hakko Kogyo Co., Ltd., Chemical Abstracts, Vol. 94:156735, 1980.	
	A384	Adesogan, Chemical Abstracts, Vol. 92:110942, 1979.	
	A385	Kuwano, Chemical Abstracts, Vol. 76:100005, 1971.	
	A386	Kuwano, Chemical Abstracts, Vol. 76:113179, 1971.	
	A387	Wei, Chemical Abstracts, Vol. 73:3791, 1970.	
	A388	Wei, Chemical Abstracts, Vol. 73:3790, 1970.	
	A389	Wei, Chemical Abstracts, Vol. 73:3793, 1970.	
	A390	Wei, Chemical Abstracts, Vol. 73:3792, 1970.	
	A391	Wei, Chemical Abstracts, Vol. 71:81154, 1969.	

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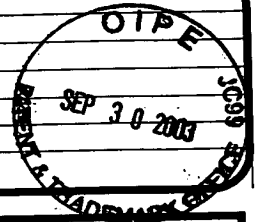
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	A393	Chemical Abstracts, Vol. 64:12677e.	
	A394	Pravda, Beilstein Registration Number 44706 (1955).	
	A395	Decrescenzo, Chemical Abstracts, Vol. 128:167263.	
	A396	Koo, Chemical Abstracts, Vol. 128:61425.	
	A397	Zollinger, Chemical Abstracts, Vol. 126:334169.	
	A398	Kojima, Chemical Abstracts, Vol. 128:101960.	
	A399	Kojima, Chemical Abstracts, Vol. 128:88717.	
	A400	Kojima, Chemical Abstracts, Vol. 128:3701.	

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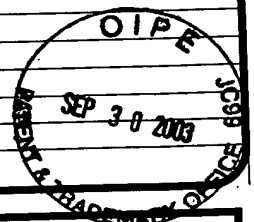
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Sheet 31 of 45

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	A402	Harayama, Chemical Abstracts, Vol. 126:277419.	
	A403	Craig, Chemical Abstracts, Vol. 128:167337.	
	A404	Hiroi, Chemical Abstracts, Vol. 127:80935.	
	A405	Cooper, Chemical Abstracts, Vol. 127:17744.	
	A406	Littler, Chemical Abstracts, Vol. -126:157674.	
	A407	Takatani, Chemical Abstracts, Vol. 125:33679.	
	A408	Nagahara, Chemical Abstracts, Vol. 96:106515.	
	A409	Nakagawa, Chemical Abstracts, Vol. 126:30930.	

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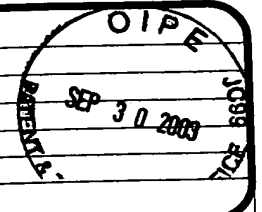
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	A411	Kojima, Chemical Abstracts, Vol. 125:316228.	
	A412	Kojima, Chemical Abstracts, Vol. 125:316349.	
	A413	Miyawaki, Chemical Abstracts, Vol. 125:316226.	
	A414	Ibuka, Chemical Abstracts, Vol. 123:169445.	
	A415	Fujii, Chemical Abstracts, Vol. 123:314472.	
	A416	Sambyal, Chemical Abstracts, Vol. 123:98549.	
	A417	Ikeuchi, Chemical Abstracts, Vol. 123:285785.	
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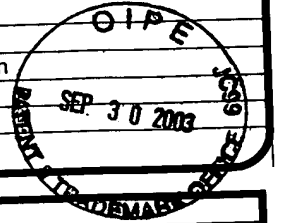
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 Attorney Docket Number 054707-1225



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	A419	Renson, Chemical Abstracts, Vol. 120:294521.	
	A420	Roos, Chemical Abstracts, Vol. 121:167365.	
	A421	Manickum, Chemical Abstracts, Vol. 122:159795.	
	A422	Nagahara, Chemical Abstracts, Vol. 120:107001.	
	A423	Knight, Chemical Abstracts, Vol. 120:54423.	
	A424	Cooper, Chemical Abstracts, Vol. 117:171212.	
	A425	Aahman, Chemical Abstracts, Vol. 118:80750.	
	A426	Cooper, Chemical Abstracts, Vol. 118:22104.	
	A427	Toshimitsu, Chemical Abstracts, Vol. 118:7085.	

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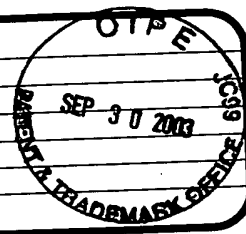
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		Application Number	10/601,607
Sheet	34	Filing Date	06/24/2003
	of	First Named Inventor	Gregory S. Hamilton
	45	Group Art Unit	Previously 1625
		Examiner Name	Unassigned
		Attorney Docket Number	054707-1225



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	A429	Trybulski, Chemical: Abstracts, Vol. 91:22654.	
	A430	Merlin, Chemical Abstracts, Vol. 115:92678.	
	A431	Manickum, Chemical Abstracts, Vol. 117:47892.	
	A432	Cooper, Chemical Abstracts, Vol. 116:83582.	
	A433	Takahashi, Chemical Abstracts, Vol. 115:8231.	
	A434	Rosini, Chemical Abstracts, Vol. 115:29647.	
	A435	Alker, Chemical Abstracts, Vol. 115:29390.	
	A436	Constansa, Chemical Abstracts, Vol. 90:46562.	

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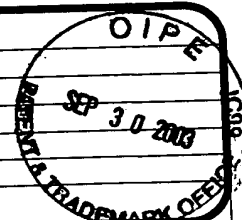
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	A438	Langlois, Chemical Abstracts, Vol. 112:178424.	
	A439	McIntosh, Chemical Abstracts, Vol. 109:148669.	
	A440	Merlin, Chemical Abstracts, Vol. 109:170689.	
	A441	Frigola, Chemical Abstracts, Vol. 109:37817.	
	A442	Hendrie, Chemical Abstracts, Vol. 109:6914.	
	A443	Shanklin, Chemical Abstracts, Vol. 86:32892.	
	A444	Eislager, Chemical Abstracts, Vol. 101:230467.	
	A445	Kaszubska, Chemical Abstracts, Vol. 101:54832.	

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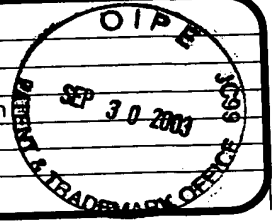
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	A447	Holland, Chemical Abstracts, Vol. 79:6866.	
	A448	Holland, Chemical Abstracts, Vol. 78:62679.	
	A449	Koehler, Chemical Abstracts, Vol. 87:134938.	
	A450	Tseng, Chemical Abstracts, Vol. 87:68603.	
	A451	Holland, Chemical Abstracts, Vol. 86:89409.	
	A452	Holland, Chemical Abstracts, Vol. 74:49083.	
	A453	Wiegerebe, Chemical Abstracts, Vol. 83:9671.	
	A454	Holland, Chemical Abstracts, Vol. 77:48046.	

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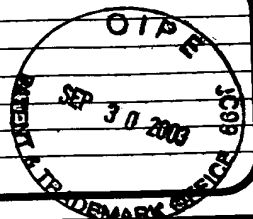
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	A455	Hite, Chemical Abstracts, Vol. 75:140649.	
	A456	Shafi'ee, Chemical Abstracts, Vol. 70:96027.	
	A457	Shafi'ee, Chemical Abstracts, Vol. 68:77541.	
	A458	CA61:16145e.	
	A459	CA60:8034h.	
	A460	304403 <u>Beilstein</u>	
	A461	292-57 <u>Beilstein</u>	
	A462	Ahman, Jens and Somfai, Peter, "Preparation and Intramolecular Radical Cyclization of Some Cyclic N-Sulfonylenamines," <u>J. Chem. Soc., Perkin Trans. 1</u> , 1994, 8, 1079-82.	
	A463	Aketa, Kohichi et al., "Stereochemical Studies. XL. A Biomimetic Conversion of L-Lysine Into Optically Active 2-Substituted Piperidines. Synthesis of D- and L-Pipecolic acid, and (S)-(+)-Coniine From L-Lysine." <u>Chem Pharm. Bull.</u> , 24(4), 1976, 621-31.	

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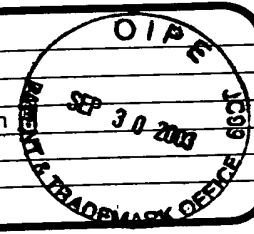
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		Group Art Unit	Previously 1625
		Examiner Name	Unassigned
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	A464	Alfes, H. et al., "Use of Mass Spectrometry for Identifying Central Nervous System-Stimulating Drugs (Doping Agents) Through Their DANS Derivatives." <u>Sportarzt Sportmed.</u> , 22(5), 1971, 104-5. (In German)	
	A465	Alo, Babjide I. et al., "N-(Arylsulfonyl) tetrahydropyridinium Salts: Intermediates for Multi-Ring Heterocycles. Part I. Synthesis of Hexahydropyrdo[1.2-b] [1,2,4]benzo-thiadiazine Dioxides," <u>J. Chem. Soc., Perkin Trans. 1</u> , 1990, 7, 1835-38.	
	A466	Alo, Babjida I. et al., "Synthesis of 1,2,4-Benzothiadiazines Via Readily Generated Iminium ions," <u>J. Chem. Soc., Perkin Trans. 1</u> , 1986, 5, 805-08.	
	A467	Artico, Marino et al., "Synthesis of Pyrrol Aryl Sulfones Targeted at the HIV-1 Reverse Transcriptase," <u>Arch. Pharm.</u> , 1995, 328(3), 223-9.	
	A468	Baumgarten et al., Hoppe-Seyler's Z. Physiol. Chem., 1932, 209(145), 159. (Beilstein Registration No. 12360).	
	A469	H. Bayard Milne and Chi-Hsieh Pang, "Use of Benzylsulfonyl Chloride in Peptide Synthesis," <u>Chem. Abstr.</u> , 1957, 51: 10375i.	
	A470	Brown, Dearg S. et al., "Substitution Reactions of 2-(Phenylsulfonyl) Piperidines and -Pyrrolidines With Carbon Nucleophiles: Synthesis of the Pyrrolidine Alkaloids Norruspoline and Ruspoline," <u>Tetrahedron</u> , (1991), 47(7), 1311-28.	
	A471	Busson, R. and Vanderhaeghe, H., "Synthesis and Circular Dichroism of (5S)-1-Azabicyclo[3.2.0]Heptan-7-one." <u>J. Org. Chem.</u> , 43(23), 1978, 4438-41.	
	A472	Collins, Mark A. and Jones, D. Neville, "Efficient Synthesis of Bicyclo [2,2,1] Heptane Derivatives Via Stereoselective Intramolecular Michael Reactions of Vinyl Sulfones." <u>Tetrahedron</u> , 52(26), 1996, 8795-8806.	

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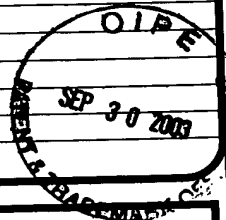
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	A473	Davis, Franklin A. et al., "Chiral Sulfamidas: Synthesis of Optically Active 2-Sulfamylloxaziridines. High Enantioselectivity in the Asymmetric oxidation of sulfides to Sulfoxides." <u>J. Org. Chem.</u> , 49(8), 1984, 1465-67.	
	A474	DeRuiter, Jack et al., "In Vitro Aldose Reductase Inhibitory Activity of Substituted N-Benzenesulfonyl-glycine Derivatives," <u>J. Pharm. Sci.</u> , 1987, 76(2), 149-52.	
	A475	Dokuzovic, Zdravko et al., "Asymmetric Synthesis. Metal Complex Mediated Synthesis of Chiral Glycine by Enantioselective Proton Exchange." <u>J. Am. Chem. Soc.</u> , 108(8), 1986, 2034-39.	
	A476	Ejima, Akio et al., "Antitumor Agents. 1. Asymmetric Synthesis of (S)-Camptothecin," <u>Tetrahedron Lett.</u> , 1989, 30(20), 2639-40.	
	A477	El-Naggar, A.M. et al., "Synthesis and Biological Activity of Some New Dibenzofuran- and 7-Nitrodibenzofuran-2- Sulfonylamino Acid Derivatives," <u>Acta Pharm. Jugosl.</u> , 1985, 35(1), 15-22.	
	A478	El-Naggar, A.M. et al., "Synthesis and Biological Activity of Some New Quinoline-8-Sulfonylamino Acid and Dipeptide Derivatives," <u>Acta Pharm. Jugosl.</u> , 1983, 33(2), 103-10.	
	A479	El Naggar, A.M. et al., "Synthesis of Thiophene-2-Sulfony-Amino Acid and Dipeptide Derivatives," <u>Egypt J. Chem.</u> , 1981, 23(4), 273-9	
	A480	Fricker, Lloyd D. and Solomon, Snyder H., "Purification and Characterization of Enkephalin Convertase, an Enkephalin-Synthesizing Carboxypeptidase," <u>J. Biol. Chem.</u> , (1983), 258(18), 10950-5.	
	A481	Fujita, Tsunehisa, et al., "Free-Radical Polymerization of Maleimide Derivatives in the Presence of Chiral Substances," <u>J. Macromol. Sci., Chem.</u> , 1988, A25(3), 327-36.	

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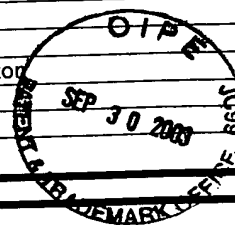
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	A482	Hosaka, Toshihiro, et al., "An Efficient Protocol for the Selective Reduction of Benzenesulfonyllactam to Benzenesulfonyl Cyclic Amine," <u>Tetrahedron Lett.</u> , 1997, 38(20), 3535-38.	
	A483	Huart, Catherine and Ghosez, Leon, "Asymmetric Cyclopentannulation of Cyclic Enones With a Chiral 1,3-Dipole Equivalent," <u>Angew. Chem.</u> , 36(6), 1997, 634-36.	
	A484	Hui, Koon-Sea et al., "Separation of Alkylamino-naphthylsulfonyl Peptides and Amino Acids by High-Performance Liquid Chromatography. Methods for Measuring melanotropin Inhibiting Factor Breakdown," <u>J. Chromatogr.</u> , 1980, 192(2), 341-50.	
	A485	Ibrahim, T.M. et al., "Synthesis and Antimicrobial Activity of Some New 4-nitrothiophene-2-sulphonyl Amino Acid Derivatives," <u>Indian J. Heterocycl. Chem.</u> , 1993, 3(1), 31-36.	
	A486	Ibrahim, T. M. et al., "Synthesis and Antimicrobial Activity of Some New 7-Methoxy-4-Methylcoumarin-6-Sulfonylamino Acid Derivatives," <u>Proc. Indian Natl. Sci. Acad.</u> , Part A (1994), 60(2), 433-39.	
	A487	Kozikowski, Alan P., et al., "Alzheimer's Therapy: An Approach to Novel Muscarinic Ligands Based Upon the Naturally Occurring Alkaloid Himbacine," <u>Bioorg. Med. Chem. Lett.</u> , 2(8), 1992, 797-802.	
	A488	Malin, D.H. et al., "Subcutaneous Injection of an Analog of Neuropeptide FF Prevents Naloxone-Precipitated Morphine Abstinence Syndrome," <u>Drug Alcohol Depend.</u> , (1995), 40(1), 37-42.	
	A489	Malaska, Micheal J. et al., "Simplified Analogs of Himbacine Displaying Potent Binding Affinity for Muscarinic Receptors," <u>Bioorg. Med. Chem. Lett.</u> , 3(6), 1993, 1247-52.	
	A490	Maekawa, K. et al., "Pesticides Derived From Amino Acids," <u>Environ. Qual. Saf., Suppl.</u> (1975), 3(Pesticides), 748-53.	

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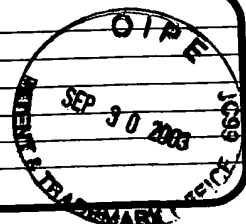
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First Named Inventor	Gregory S. Hamilton
Group Art Unit	Previously 1625
Examiner Name	Unassigned
Attorney Docket Number	054707-1225



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	A491	Moree, Wilna J. et al., "Synthesis of Peptidosulfonamides and Peptidosulfonamides: Peptidomimetics Containing the Sulfonamide or Sulfonamide Transition-State Isostere," <u>J. Org. Chem.</u> , 1995, 60(16), 5157-69.	
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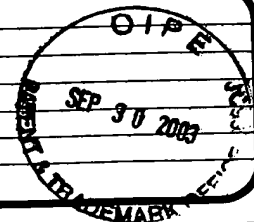
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	A500	Royer, J. and Husson, H. P., "2-Cyano-6-Oxazolopiperidine: A Powerful Tool for the Asymmetric Synthesis of Piperidine Derivatives." <u>Jannsen Chim. Acta</u> , 11(2), 1993, 3-8.	
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	A506	Tsuge, HiroYasu et al., "Highly Diastereoselective Michael Addition to Optically Active Trifluoromethylated α , β -Unsaturated Sulfonamides Based on Their Hinge-Like Conformation." <u>Tetrahedron</u> , 53(3), 1997, 823-38.	
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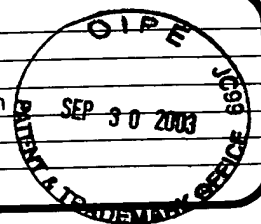
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	A509	Wohl and Schaefer, "Und Laesst Des Erhaltene Oel in Der Kaelte Stehen," <u>Thiele, Chem.Ber.</u> , 38, (1905), 4157-60.	
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	A511	Zhou, Ye et al., "Liquid Chromatographic Evaluation of a New Chiral Derivatizing Reagent for Enantiomeric Resolution of Amine and Alcohol Drugs," <u>J. Liq. Chromatogr.</u> , (1990), 13(5), 875-85.	
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	A513	Kojima, Chemical Abstracts, Vol. 128:101960.	
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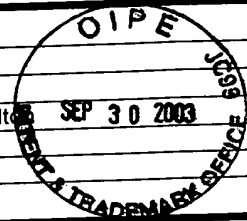
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	A526	Kojima, Chemical Abstracts, Vol. 125:316228.	

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	A527	Kojima, Chemical Abstracts, Vol. 125:316349.	

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